

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
28 April 2005 (28.04.2005)

PCT

(10) International Publication Number
WO 2005/037718 A1

(51) International Patent Classification⁷: C02F 1/28, A23J 1/20, 1/00, 3/34, A23K 1/08, 1/10, 1/175

(21) International Application Number:
PCT/IB2004/003420

(22) International Filing Date: 19 October 2004 (19.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03292605.7 20 October 2003 (20.10.2003) EP

(71) Applicant and

(72) Inventor: BOULIS, Yannick [FR/FR]; 17, Hameau du Sault, F-35370 Argentre du Plessis (FR).

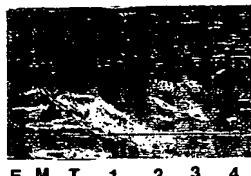
(74) Agent: THURGOOD, Alexander, J.; Cabinet Michel Richebourg, 69 rue Saint Simon, Le Clos du Golf, F-42000 Saint Etienne (FR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: METHOD FOR THE ISOLATION OF BIOLOGICALLY ACTIVE SUBSTANCES FROM DAIRY BY-PRODUCT OR WASTE FLOWS, AND BIOLOGICALLY ACTIVE SUBSTANCES OBTAINED THEREFROM

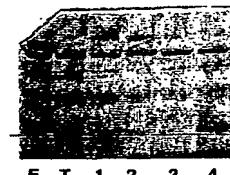


E M T 1 2 3 4



5 6 7 8

A

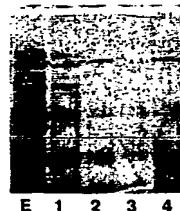


E T 1 2 3 4



5 6 7 8

B



E 1 2 3 4



5 6 7 8

C

(57) Abstract: The present invention relates to method for the isolation of at least one biologically active substance from an industrial dairy by-product or waste flow, comprising - selecting at least one industrial dairy waste or by-product flow containing at least one biologically active substance; - bringing the at least one industrial dairy waste or by-product flow into contact with at least one solid insoluble support material for sufficient time to cause the at least one biologically active substance to selectively adsorb on said support material; - recovering the insoluble solid support material carrying the adsorbed at least one biologically active substance.

WO 2005/037718 A1



Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv)) for US only*

Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.